10/087728 BLAKELY SOKOLOF A LIMITED HABILITY PARTNERSHIP INCLUDING LAW CORPORATIONS TELEPHONE (408) 720-8300 INTELLECTUAL PROPERTY LAW **OTHER OFFICES**

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1279 OAKMEAD PARKWAY SUNNYVALE, CALIFORNIA 94085-4040

Los Angeles, CA ORANGE COUNTY/COSTA MESA, CA DENVER, CO PORTLAND/BEAVERTON, OR SEATTLE, WA

Certificate

NOV 0 4 2005

of Correction

June 24, 2005

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

CERTIFICATE OF CORRECTION

U. S. Letters Patent No. 6,888,856 B2

Issued: May 3, 2005

For:

Re:

METHOD AND APPARATUS FOR

FILTERING AN OPTICAL BEAM

Inventor: Green et al.

Our File No. 42390.P14868C

Dear Sir:

Enclosed is the Certificate of Correction (two copies) for the above-referenced patent. This request for correction is made under rule 322 of the Rules of Practice and 35 U.S.C. Section 254.

Find enclosed a copy of the allowed claims and the Notice of Allowability dated October 21, 2004.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Edwin H. Tav

Reg. No. 25,129

EHT/keh Enclosures

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,888,856 B2

DATED : May 3, 2005

INVENTOR(S) : Green, et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Delete claims 1-32 and insert the attached set of claims.

MAILING ADDRESS OF SENDER
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN
12400 Wilshire Blvd. 7th floor
Los Angeles, CA 90025-1026

PATENT NO. <u>6,888,856</u>

Certificate of Correction (PTO Form 1050)-Amended

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,888,856 B2—
DATED : May 3, 2005

INVENTOR(S) : Green, et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Delete claims 1-32 and insert the attached set of claims.

MAILING ADDRESS OF SENDER
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PATENT NO. <u>6,888,856</u>

Certificate of Correction (PTO Form 1050)-Amended

United States Paten and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450

P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

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NOTICE OF ALLOWANCE AND FEE(S) DUE

10/21/2004 **T**E

Blakely Sokoloff Taylor & Zafman LLP 12400 Wilshire Bouelevard Seventh Floor Los Angeles, CA 90025-1030 ReceiveD

OCT 2 5 2004

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

EXAMINER

JACKSON, CORNELIUS H

ART UNIT PAPER NUMBER

2828

DATE MAILED: 10/21/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/087,728	02/28/2002	Evan D.H. Green	NUFO021CON	7513
TITLE OF DURINGULAR	**************************************	OR FURENCIA AN ORMIGAT REALY	D . 450. C .	

TITLE OF INVENTION: METHOD AND APPARATUS FOR FILTERING AN OPTICAL BEAM

P14968C

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1370	\$300	\$1670	01/21/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together wi

pplicable fee(s), to: Mail

Mail Stop ISSU EE Commissioner fo. Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) irridicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

7590

APPLN. TYPE

10/21/2004

Blakely Sokoloff Taylor & Zafman LLP 12400 Wilshire Bouelevard Seventh Floor Los Angeles, CA 90025-1030



ISSUE FEE

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (703) 746-4000, on the date indicated below.

n the date indicated below.	ransmitted to the USPIU (703) 746-4000,
(Depositor's name)	
(Signature)	
(Date)	

TOTAL FEE(S) DUE

DATE DUE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/087,728	02/28/2002	Evan D.H. Green	NUFO021CON	7513

PUBLICATION FEE

TITLE OF INVENTION: METHOD AND APPARATUS FOR FILTERING AN OPTICAL BEAM

SMALL ENTITY

nonprovisional	NO	\$1370	•	\$300	\$1670	01/21/2005
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JACKSON, CORNELIUS H				372-020000		•
I. Change of correspondence CFR 1.363). Change of corresponde Address form PTO/SB/122 "Fee Address" indication PTO/SB/47; Rev 03-02 or Number is required.	nce address (or Change of () attached.	Correspondence	(1) the n or agents (2) the n registere 2 register	inting on the patent front page, list ames of up to 3 registered patents OR, alternatively, ame of a single firm (having as a d attorney or agent) and the name red patent attorneys or agents. If remains will be printed.	attorneys 1	
3. ASSIGNEE NAME AND F	ESIDENCE DATA TO B	E PRINTED ON T	HE PATEN	IT (print or type)		X
PLEASE NOTE: Unless a recordation as set forth in 3	n assignee is identified be 7 CFR 3.11. Completion of	low, no assignee dof this form is NOT	lata will ap 'a substitut	pear on the patent. If an assigne e for filing an assignment.	e is identified below, the	document has been filed for
(A) NAME OF ASSIGNER	3	(B)	RESIDEN	CE: (CITY and STATE OR COU	NTRY)	
Please check the appropriate at 4a. The following fee(s) are en			nted on the	patent): Individual Con	poration or other private gr	roup entity Government
Issue Fee				in the amount of the fee(s) is enc	losed	
Publication Fee (No sma	all entity discount permitted	_	_	t by credit card. Form PTO-2038		
Advance Order - # of C		(The Dir	ector is hereby authorized by chacount Number	arge the required fee(s), or (enclose an extra	credit any overpayment, to copy of this form).
5. Change in Entity Status (fr	om status indicated above)					
a. Applicant claims SMA				cant is no longer claiming SMAL		
The Director of the USPTO is NOTE: The Issue Fee and Publinterest as shown by the record	requested to apply the Issue ication Fee (if required) wi s of the United States Pater	Fee and Publication in the second in the sec	on Fee (if a from anyon office.	ny) or to re-apply any previously e other than the applicant; a regist	paid issue fee to the applic ered attorney or agent; or t	ation identified above. he assignee or other party in
Authorized Signature		-	···-	Date		
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This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/087,728 02/28/2002 Evan D.H. Green NUFO 021 CON 7513 10/21/2004 EXAMINER Blakely Sokoloff Taylor & Zafman LLP JACKSON, CORNELIUS H 12400 Wilshire Bouelevard ART UNIT PAPER NUMBER Seventh Floor Los Angeles, CA 90025-1030 2828 DATE MAILED: 10/21/2004

Notice of Fee Increase on October 1, 2004

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2004, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" because some fees will increase effective October 1, 2004. See Revision of Patent Fees for Fiscal Year 2005; Final Rule, 69 Fed. Reg. 52604, 52606 (May 10, 2004).

The current fee schedule is accessible from WEB site (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2004 (or mailed with a certificate of mailing on or after October 1, 2004), the issue fee paid should be the fee that is required at the time the fee is paid. See Manual of Patent Examining Procedure (MPEP), Section 1306 (Eighth Edition, Rev. 2, May 2004). If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See MPEP Section 1308.01.

Effective October 1, 2004, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

(b) Issue fee for issuing a design patent:

(c) Issue fee for issuing a plant patent:

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspio.gov

APPLICATION NO.	FILING DATE	FILING DATE FIRST NAMED INVENTOR		CONFIRMATION NO
10/087,728	02/28/2002	Evan D.H. Green	NUFO021CON	7513
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Blakely Sokoloff 12400 Wilshire Bou	Taylor & Zafman LLP	O. A. Kri	JACKSON, CO	ORNELIUS H
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Los Angeles, CA 90	0025-1030	PATES 0C7 2 , 2005 P32	2828	
·	·	PADEMARK OFFICE	DATE MAILED: 10/21/2004	4

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 59 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 59 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

, ,	Application No.	Applicant(s)
	10/087,728	GREEN ET AL.
Notice of Allowability	Examiner	Art Unit
	Cornelius H. Jackson	2828
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. This communication is responsive to the Amendment filed	16 August 2004.	
2. The allowed claim(s) is/are <u>1,3-28 and 33-45</u> .		
3. 🛮 The drawings filed on 30 June 2003 and 21 June 2004 are	accepted by the Examiner.	
4. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMITHIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submitted in INFORMAL PATENT APPLICATION (PTO-152) which gives and including changes required by the Notice of Draftsperson (a) including changes required by the Notice of Draftsperson (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the company of the proper No. INFORMATION about the depositation attached Examiner's comment regarding REQUIREMENT Foreign (see 201) in the depositation of the deposit	been received. been received in Application No cuments have been received in this r of this communication to file a reply of ENT of this application. Ited. Note the attached EXAMINER's is reason(s) why the oath or declarate be submitted. on's Patent Drawing Review (PTO-9 Amendment / Comment or in the Of (C)) should be written on the drawing header according to 37 CFR 1.121(d) it of BIOLOGICAL MATERIAL m	national stage application from the complying with the requirements S AMENDMENT or NOTICE OF ion is deficient. 48) attached fice action of gs in the front (not the back) of ust be submitted. Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08) Paper No./Mail Date 8/16/04 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary (F Paper No./Mail Date), 7. ☐ Examiner's Amendme	•

Application/Control Number: 10/087,728

Art Unit: 2828



DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 16 August 2004 has been entered.
- 2. Acknowledgment is made that applicant's Amendment, filed on 1 6 August 2004, has been entered. Upon entrance of the Amendment, claims 1, 3-28 and 33-36 were amended, claim 2 was canceled, and claims 37-45 were added. Claims 1, 3-28 and 33-45 are now pending in the current application.

Information Disclosure Statement

3. The information disclosure statement (IDS) submitted on 16 August 2004 was filed after the mailing date of the Notice of Allowance on 12 May 2004. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Allowable Subject Matter

4. Claims 1, 3-28 and 33-45 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cornelius H. Jackson whose telephone number is (571)272-1942. The examiner can normally be reached on 8:00 - 5:00, Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MinSun Harvey can be reached on (571)272-1835. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Substitute for Form 1449/PTO			D OCT & 1 200	5 8	Comp#ete	if Known	
INFORMATION DISCLOSURI				Appl	ication Number	10/087,728	
	INFORMATION DISCEOSOR			PADEMARK	Filing	Date	February 28, 2002
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· B AU	6 1 6 2004 9	1			Ехап	niner Name	Jackson, Cornelius H.
Sheet	1 3	1.	of	1	Attor	ney Docket Number	42P14868C
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Examiner	DEWAR No.	T	0.0. FAI EN	Publication		Name of Patentee or	Pages, Columns, Lines,
Initials*		<u></u>	Document Number	Date	Арр	licant of Cited Document	Where Relevant
		Ì	Number-Kind Code ² (if known)	MM-DD-YYYY			Passages or Relevant Figures Appear
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C/4/1/	1.	US-	3,788,743	01-29-1974		George	
	2.	US-	3,899,748	08-12-1975		Bodlaj	
	3.	US-	3,921,099	11-18-1975		Abrams et al.	
	4.	US-	3,965,440	06-22-1976		Graves	
	5.	US-	4,730,105	03-08-1988		Mitschke et al.	
	6.	US-	4,934,816	06-19-1990		Silver et al.	
	7.	US-	5,022,745	06-11-1991		Zayhowski et al.	
	8.	US-	5,245,626	09-14-1993		Burke et al.	
	9	US-	5,251,222	10-05-1993		Hester et al.	
	10.	US-	5,289,491	02-22-1994		Dixon	
	11.	US-	5,412,676	05-02-1995	-	Schnier et al.	
	12.	US-	6,151,337	11-21-2000		Carlsten et al.	· ·
	13.	US-	6,201,638 B1	03-13-2001		Hall et al.	
	14.	us-	6,263,004 B1	07-17-2001		Arvidsson et al.	
	15.	US-	6,470,036 B1	10-22-2002		Bailey et al.	
COU	16.	U\$-	6,600,760 B1	07-29-2003		Green et al.	

		FO.	REIGN PATENT	DOCUMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т°

Examiner Signature	-190	Date Considered	9/30/04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

NOTICE OF OFFICE PLAN TO CEASE SUPPLYING COPIES OF CITED U.S. PATENT REFERENCES WITH OFFICE ACTIONS, AND PILOT TO EVALUATE THE ALTERNATIVE OF PROVIDING ELECTRONIC ACCESS TO SUCH U.S. PATENT REFERENCES

Summary

OCT 3 1 2005

The United States Patent and Trademark Office (Office or USPTO) plans in the near future to: (1) cease mailing copies of U.S. patents and U.S. patent application publications (US patent references) with Office actions except for citations made during the international stage of an international application under the Patent Cooperation Treaty and those made during reexamination proceedings; and (2) provide electronic access to, with convenient downloading capability of, the US patent references cited in an Office action via the Office's private Patent Application Information Retrieval (PAIR) system which has a new feature called "E-Patent Reference." Before ceasing to provide copies of U.S. patent references with Office actions, the Office shall test the feasibility of the E-Patent Reference feature by conducting a two-month pilot project starting with Office actions mailed after December 1, 2003. The Office shall evaluate the pilot project and publish the results in a notice which will be posted on the Office's web site (www.USPTO.gov) and in the Patent Official Gazette (O.G.). In order to use the new E-Patent Reference feature during the pilot period, or when the Office ceases to send copies of U.S. patent references with Office actions, the applicant must: (1) obtain a digital certificate from the Office: (2) obtain a customer number from the Office, and (3) properly associate applications with the customer number. The pilot project does not involve or affect the current Office practice of supplying paper copies of foreign patent documents and non-patent literature with Office actions. Paper copies of references will continue to be provided by the USPTO for searches and written opinions prepared by the USPTO for international applications during the international stage and for reexamination proceedings.

Description of Pilot Project to Provide Electronic Access to Cited U.S. Patent References

On December 1, 2003, the Office will make available a new feature, E-Patent Reference, in the Office's private PAIR system, to allow more convenient downloading of U.S. patents and U.S. patent application publications. The new feature will allow an authorized user of private PAIR to download some or all of the U.S. patents and U.S. patent application publications cited by an examiner on form PTO-892 in Office actions, as well as U.S. patents and U.S. patent application publications submitted by applicants on form PTO/SB08 (1449) as part of an IDS. The retrieval of some or all of the documents may be performed in one downloading step with the documents encoded as Adobe Portable Document format (.pdf) files, which is an improvement over the current page-by-page retrieval capability from other USPTO systems.

references. The Office plans to continue to provide access to the E-Patent Reference feature during its evaluation of the pilot.

Comments

Comments concerning the E-Patent Reference feature should be in writing and directed to the Electronic Business Center (EBC) at the USPTO by electronic mail at eReference@uspto.gov or by facsimile to (703) 308-2840. Comments will be posted and made available for public inspection. To ensure that comments are considered in the evaluation of the pilot project, comments should be submitted in writing by January 15, 2004.

Comments with respect to specific applications should be sent to the Technology Centers' customer service centers. Comments concerning digital certificates, customer numbers, and associating customer numbers with applications should be sent to the Electronic Business Center (EBC) at the USPTO by facsimile at (703) 308-2840 or by e-mail at EBC@uspto.gov.

Implementation after Pilot

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Date: 12 1/03

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Commissioner for Patents



Allowed Claims 1, 3-28, and 33-45

1. An optical communication apparatus including a tunable filter, the tunable filter being tunable to each selected center wavelength of a number of channels, and each of the channels centered on a corresponding gridline of a selected wavelength grid, the tunable filter comprising:

a grid generator having reflective surfaces, mounted for optical alignment in an optical path of a beam, wherein the grid generator including a first selected optical path length determinative of a first free spectral range having a first plurality of transmission peaks corresponding to gridlines of the selected wavelength grid;

a channel selector having reflected surfaces, mounted for optical alignment in the optical path of the beam, wherein the channel selector including a tunable second optical path length determinative of a second free spectral range having a second plurality of transmission peaks within the selected wavelength grid, wherein the second free spectral range (FSR2) is related to the first free spectral range (FSR1) by the equation:

 $FSR2 \approx (M/M \pm 1)(FSR1)$

wherein M is the total number of channels within the selected wavelength grid; means for maintaining the first selected optical path length of the grid generator; and means for varying the tunable second optical path length of the channel selector to tune the optical beam to a selected channel of the wavelength grid and substantially attenuate the other channels of the wavelength grid.

2. (Cancelled)

- 3. The optical communication apparatus of Claim 1, wherein a finesse of the channel selector substantially corresponds with less than the number of channels of the selected wavelength grid.
- 4. The optical communication apparatus of Claim 1, wherein the grid generator comprises at least one of a Fabry-Perot filter and an interference element.

- 5. The optical communication apparatus of Claim 1, wherein the grid generator comprises an etalon.
- 6. The optical communication apparatus of Claim 1, wherein the grid generator comprises an etalon; and wherein the means for maintaining the first optical path length of the grid generator comprises a thermal controller to control a temperature of the etalon.
- 7. The optical communication apparatus of Claim 1, wherein the channel selector comprises at least one of: a diffraction element, an interference element, and a birefringent element.
- 8. The optical communication apparatus of Claim 1, wherein the means for varying the tunable second optical path length of the channel selector comprises a mechanical actuator to tune the channel selector by varying the tunable second optical path length of the channel selector.
- 9. The optical communication apparatus of Claim 1, wherein the means for varying the tunable second optical path length of the channel selector comprises a thermal actuator to tune the channel selector by varying a temperature of the channel selector.
- 10. The optical communication apparatus of Claim 1, wherein the means for varying the tunable second optical path length of the channel selector comprises an electro-optic actuator to tune the channel selector by varying the tunable second optical path length of the channel selector.
- 11. The optical communication apparatus of Claim 1, wherein the channel selector includes at least one of selected length and a tunable index of refraction.
- 12. The optical communication apparatus of Claim 1, wherein the channel selector includes a tunable length and a selected index of refraction.
- 13. The optical communication apparatus of Claim 1, wherein the channel selector comprises:

a gas spaced etalon including a gap to hold a gas, the gas spaced etalon_tunable by adjusting a pressure of the gas within the gap to vary the second optical path length.

- 14. The optical communication apparatus of Claim 1, wherein the channel selector comprises: an etalon electrically tunable in response to an applied electric field to vary the second optical path length.
- 15. The optical communication apparatus of Claim 1, wherein the channel selector further comprises:

an etalon thermally tunable in response to an applied thermal energy to vary the second optical path length.

- 16. The optical communication apparatus of Claim 1, wherein the channel selector comprises:
 a semiconductor element with a tunable index of refraction responsive to an applied electric field to vary the second optical path length.
- 17. The optical communication apparatus of Claim 7, wherein the birefringent element includes at least one of: a Pockels cell and a Kerr cell.
- 18. The optical communication apparatus of Claim 7, wherein the interference element comprises:

a wedge-shaped etalon.

- 19. The optical communication apparatus of Claim 18, wherein the interference element comprises at least one of a wedge-shaped solid etalon and a wedge-shaped air gap etalon.
- 20. The optical communication apparatus of Claim 18, wherein the means for varying the tunable second optical path length comprises an actuator for translating the wedge-shaped etalon across the optical path of the beam to tune the second optical path length.

- 21. The optical communication apparatus of Claim 1, wherein the channel selector comprises a grating; and wherein the means for varying the tunable second optical path length of the channel selector comprises an actuator for varying an angle of the grating with respect to the optical path of the beam to tune the beam to the selected channel of the wavelength grid.
- 22. The optical communication apparatus of Claim 1, further comprising:

 a logic to tune the channel selector to the selected channel of the wavelength grid.
- 23. The optical communication apparatus of Claim 1, further comprising: a logic to tune the grid generator to the selected wavelength grid.
- 24. The optical_communication apparatus of Claim 1, further comprising:

 a gain medium to emit the beam, and the gain medium capable of accepting feedback to tune the gain medium to a selected one of the number of channels of the wavelength grid.
- 25. The optical communication apparatus of claim 1, further comprising:
 a first optical circulator including a first port, a second port, and a third port; and a second optical circulator including a first port, a second port, and a third port, wherein the tunable filter optically coupled between the second port of the first optical circulator and the first port of the second optical circulator, the tunable filter to tune a selected one of the number of channels of the wavelength grid to pass between the second port of the first optical circulator and the first port of the second optical circulator.
- 26. The optical_communication apparatus of Claim 1, further comprising:

 a gain medium tunable to emit the beam at a selected wavelength;

 the tunable filter including an input and an output, the tunable filter input positioned in the optical path of the beam

an error detector to detect a difference in energy levels of the beam at the input and the output of the tunable filter and to generate an error signal based on the difference; and 42.P14868C 10/087,728

<u>a</u> logic to receive the error signal and to adjust a control parameter of the gain medium in response to the error signal.

- 27. The optical communication apparatus of Claim 1, wherein the grid generator comprising:
 a gain medium to emit the beam, the gain medium including a front facet and a rear
 facet, wherein the first selected optical path length between the front facet and the rear facet
 determinative of the first free spectral range and corresponding to the spacing between adjacent
 gridlines of the selected wavelength grid.
- 28. The optical communication apparatus of Claim 1, wherein the channel selector comprising:
 a gain medium to emit the beam, the gain medium including a front facet and a rear
 facet, wherein the tunable second selected optical path length between the front facet and the rear
 facet determinative of the second free spectral range.

Claims 29-32 (Cancelled)

33. A method to filter an optical beam, comprising:

generating a first set of wavelengths corresponding to a first plurality of transmission peaks within the optical beam, the first set of wavelengths having a first free spectral range corresponding to the center wavelengths of each of the channels of the selected wavelength grid;

generating a variable second set of wavelengths corresponding to a second plurality of transmission peaks within the optical beam, the variable second set of wavelengths having a second free spectral range, wherein the second free spectral range (FSR2) is related to the first free spectral range (FSR1) by the equation:

 $FSR2 \approx (M / M \pm 1)(FSR1)$

wherein M is the total number of channels within the selected wavelength grid; generating a tuning signal at a channel tuner; and

varying the variable second set of wavelengths based on the tuning signal to select a desired channel of the channels of the selected wavelength grid.

- 34. The method of Claim 33, wherein generating the first set of wavelengths comprises aligning a grid generator having an optical path length determinative of the first free spectral range with the optical beam.
- 35. The method of Claim 33, wherein generating the variable second set of wavelengths comprises aligning a channel selector having a variable optical path length determinative of the second free spectral range with the optical beam.
- 36. The method of Claim 35, wherein varying the variable second set of wavelengths comprises varying the optical path length of the channel selector.

37. An apparatus, comprising:

a grid generator in an optical path of an optical beam, wherein the grid generator including a first selected optical path length determinative of a first free spectral range having a first plurality of transmission peaks corresponding to gridlines of a selected wavelength grid;

a channel selector in the optical path of the optical beam, wherein the channel selector including a tunable second optical path length determinative of a second free spectral range having a second plurality of transmission peaks within the selected wavelength grid, wherein the second free spectral range (FSR2) is related to the first free spectral range (FSR1) by the equation:

 $FSR2 \approx (M / M \pm 1)(FSR1)$

wherein M is the total number of channels within the selected wavelength grid; a grid controller operatively coupled to the grid generator to tune the grid generator to the selected wavelength grid by adjusting the first selected optical path length of the grid generator; and

a channel tuner operatively coupled to the channel selector to tune the channel selector to a selected channel of the channels of the wavelength grid by adjusting the tunable second optical path length of the channel selector.

38. The apparatus of claim 37, further comprising:

a gain medium including a front facet and a rear facet, the optical beam to be emitted from the front facet;

a reflector positioned in the optical path of the optical beam, the grid generator and the channel selector positioned between the gain medium and the reflector, a laser cavity defined by the rear facet and the reflector; and

an output assembly including coupling optics, the output assembly optically coupled to the rear facet of the gain medium.

- 39. The apparatus of claim 37, further comprising a thermal actuator thermally coupled to the grid generator to adjust the first selected optical path length of the grid generator, the thermal actuator operatively coupled to the grid controller.
- 40. The apparatus of claim 37, further comprising a thermal actuator thermally coupled to the channel selector to adjust the tunable second optical path length of the channel selector, the thermal actuator operatively coupled to the channel tuner.
- 41. The apparatus of claim 37, further comprising an electro-optic actuator coupled to the channel selector to adjust the tunable second optical path length of the channel selector, the electro-optic actuator operatively coupled to the channel tuner.
- 42. The apparatus of claim 37, further comprising an actuator coupled to the channel selector to move the channel selector to adjust the tunable second optical path length of the channel selector, the actuator operatively coupled to the channel tuner.
- 43. The apparatus of claim 37, further comprising:
 - a first optical circulator including a first port, a second port, and a third port; and a second optical circulator including a first port, a second port, and a third port,

wherein the grid generator and the channel selector optically coupled between the second port of the first optical circulator and the first port of the second optical circulator, the third port of the first optical circulator optically coupled to the third port of the second optical circulator,

wherein the optical beam to enter the first port of the first optical circulator and to exit the second port of the second optical circulator.

44. The apparatus of claim 37, further comprising:

an error detector including a first photodetector positioned in the optical beam before the grid generator and a second photodetector positioned in the optical beam after the channel selector, wherein the error detector to generate an error signal based on a difference in energy levels of the optical beam detected at the first photodetector and the second photodetector.

45. The optical communication apparatus of claim 25 wherein the third port of the first optical circulator optically coupled to the third port of the second optical circulator, wherein non-selected channels of the wavelength grid to exit the third port of the first optical circulator and to enter the third port of the second optical circulator.